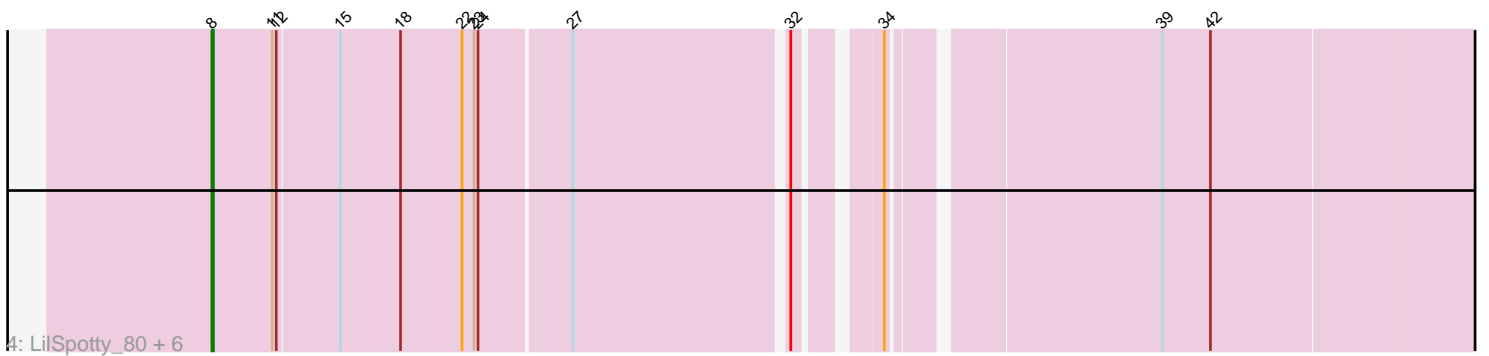
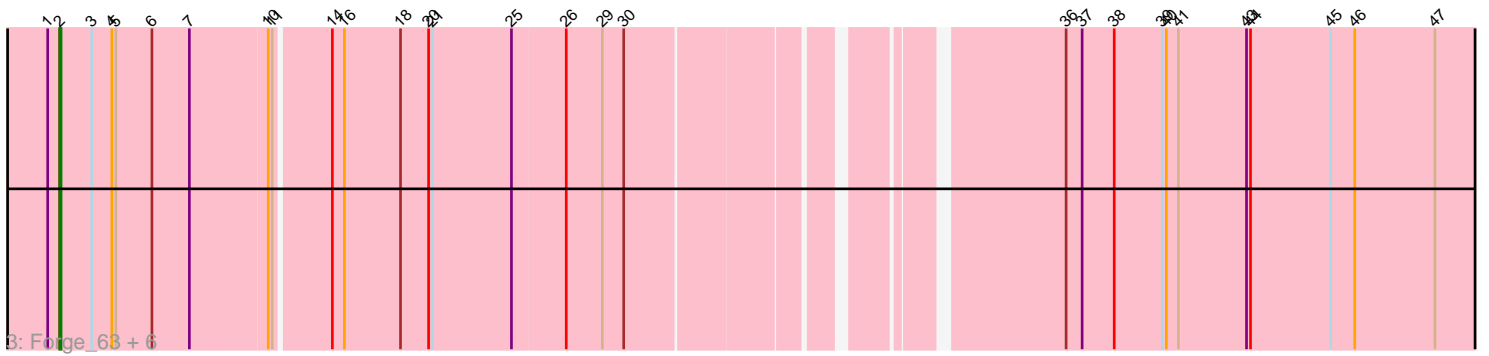
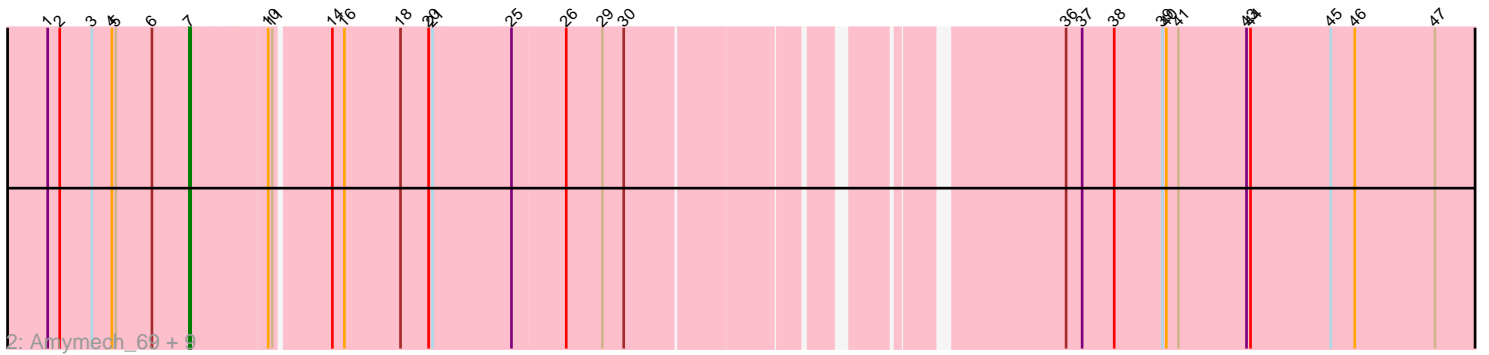
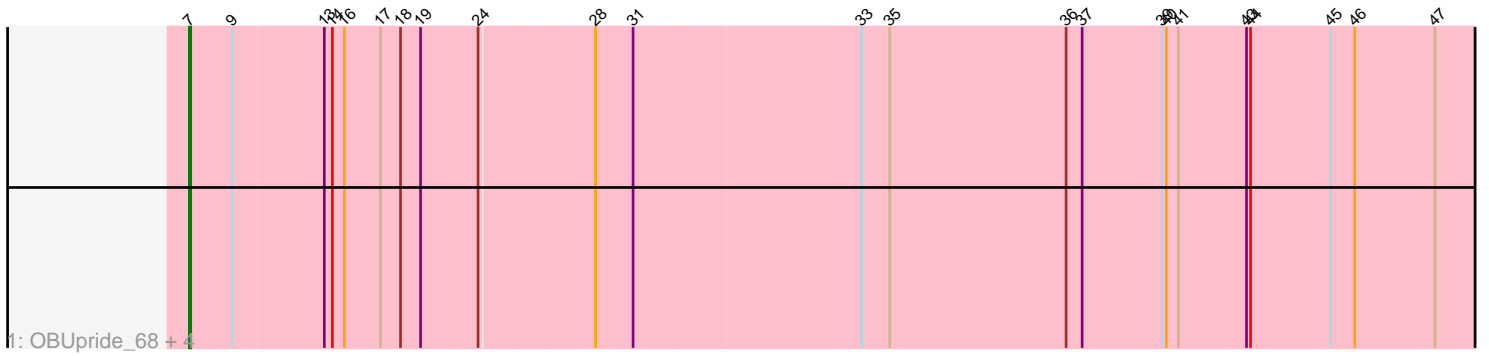


Pham 224812



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 224812 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224812 has 29 members, 2 are drafts.

Phages represented in each track:

- Track 1 : OBUpride_68, Gravaillia_64, Amochick_70, Gancho_68, Daegal_72
- Track 2 : Amymech_69, Ein37_69, HH92_68, Ubuntu_69, Kinbote_67, Luna22_63, LilHazelnut_69, Evanesce_68, Webster2_69, DeepSoil15_69
- Track 3 : Forge_63, Luke_67, Dewey_63, Wishmaker_63, Hail_63, Hadrien_67, Giles_63
- Track 4 : LilSpotty_80, TootsiePop_84, Misha28_84, Awesomesauce_85, Aloeri_88, ChickenDinner_88, DocMcStuffins_82

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 7, it was called in 15 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_70, Amymech_69, Daegal_72, DeepSoil15_69, Ein37_69, Evanesce_68, Gancho_68, Gravaillia_64, HH92_68, Kinbote_67, LilHazelnut_69, Luna22_63, OBUpride_68, Ubuntu_69, Webster2_69,

Genes that have the "Most Annotated" start but do not call it:

- Dewey_63, Forge_63, Giles_63, Hadrien_67, Hail_63, Luke_67, Wishmaker_63,

Genes that do not have the "Most Annotated" start:

- Aloeri_88, Awesomesauce_85, ChickenDinner_88, DocMcStuffins_82, LilSpotty_80, Misha28_84, TootsiePop_84,

Summary by start number:

Start 2:

- Found in 17 of 29 (58.6%) of genes in pham
- Manual Annotations of this start: 7 of 27
- Called 41.2% of time when present
- Phage (with cluster) where this start called: Dewey_63 (Q), Forge_63 (Q), Giles_63 (Q), Hadrien_67 (Q), Hail_63 (Q), Luke_67 (Q), Wishmaker_63 (Q),

Start 7:

- Found in 22 of 29 (75.9%) of genes in pham
- Manual Annotations of this start: 15 of 27
- Called 68.2% of time when present
- Phage (with cluster) where this start called: Amochick_70 (Q), Amymech_69 (Q), Daegal_72 (Q), DeepSoil15_69 (Q), Ein37_69 (Q), Evanesce_68 (Q), Gancho_68 (Q), Gravallia_64 (Q), HH92_68 (Q), Kinbote_67 (Q), LilHazelNut_69 (Q), Luna22_63 (Q), OBUpride_68 (Q), Ubuntu_69 (Q), Webster2_69 (Q),

Start 8:

- Found in 7 of 29 (24.1%) of genes in pham
- Manual Annotations of this start: 5 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloeri_88 (F1), Awesomesauce_85 (F1), ChickenDinner_88 (F1), DocMcStuffins_82 (F1), LilSpotty_80 (singleton), Misha28_84 (F1), TootsiePop_84 (F1),

Summary by clusters:

There are 3 clusters represented in this pham: Q, F1, singleton,

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 4 times for cluster F1.

Info for manual annotations of cluster Q:

- Start number 2 was manually annotated 7 times for cluster Q.
- Start number 7 was manually annotated 15 times for cluster Q.

Gene Information:

Gene: Aloeri_88 Start: 50555, Stop: 51472, Start Num: 8

Candidate Starts for Aloeri_88:

(Start: 8 @50555 has 5 MA's), (11, 50600), (12, 50603), (15, 50648), (18, 50693), (22, 50738), (23, 50747), (24, 50750), (27, 50813), (32, 50963), (34, 51011), (39, 51194), (42, 51230),

Gene: Amochick_70 Start: 46259, Stop: 47293, Start Num: 7

Candidate Starts for Amochick_70:

(Start: 7 @46259 has 15 MA's), (9, 46289), (13, 46355), (14, 46361), (16, 46370), (17, 46397), (18, 46412), (19, 46427), (24, 46469), (28, 46550), (31, 46577), (33, 46745), (35, 46766), (36, 46898), (37, 46910), (39, 46970), (40, 46973), (41, 46982), (43, 47033), (44, 47036), (45, 47096), (46, 47114), (47, 47174),

Gene: Amymech_69 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for Amymech_69:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Awesomesauce_85 Start: 50791, Stop: 51708, Start Num: 8

Candidate Starts for Awesomesauce_85:

(Start: 8 @50791 has 5 MA's), (11, 50836), (12, 50839), (15, 50884), (18, 50929), (22, 50974), (23, 50983), (24, 50986), (27, 51049), (32, 51199), (34, 51247), (39, 51430), (42, 51466),

Gene: ChickenDinner_88 Start: 50555, Stop: 51472, Start Num: 8

Candidate Starts for ChickenDinner_88:

(Start: 8 @50555 has 5 MA's), (11, 50600), (12, 50603), (15, 50648), (18, 50693), (22, 50738), (23, 50747), (24, 50750), (27, 50813), (32, 50963), (34, 51011), (39, 51194), (42, 51230),

Gene: Daegal_72 Start: 46821, Stop: 47852, Start Num: 7

Candidate Starts for Daegal_72:

(Start: 7 @46821 has 15 MA's), (9, 46851), (13, 46917), (14, 46923), (16, 46932), (17, 46959), (18, 46974), (19, 46989), (24, 47031), (28, 47112), (31, 47139), (33, 47307), (35, 47328), (36, 47460), (37, 47472), (39, 47532), (40, 47535), (41, 47544), (43, 47595), (44, 47598), (45, 47658), (46, 47676), (47, 47736),

Gene: DeepSoil15_69 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for DeepSoil15_69:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Dewey_63 Start: 45667, Stop: 46746, Start Num: 2

Candidate Starts for Dewey_63:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: DocMcStuffins_82 Start: 52185, Stop: 53102, Start Num: 8

Candidate Starts for DocMcStuffins_82:

(Start: 8 @52185 has 5 MA's), (11, 52230), (12, 52233), (15, 52278), (18, 52323), (22, 52368), (23, 52377), (24, 52380), (27, 52443), (32, 52593), (34, 52641), (39, 52824), (42, 52860),

Gene: Ein37_69 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for Ein37_69:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Evanesce_68 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for Evanesce_68:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Forge_63 Start: 45667, Stop: 46746, Start Num: 2

Candidate Starts for Forge_63:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390),

(39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Gancho_68 Start: 45490, Stop: 46521, Start Num: 7

Candidate Starts for Gancho_68:

(Start: 7 @45490 has 15 MA's), (9, 45520), (13, 45586), (14, 45592), (16, 45601), (17, 45628), (18, 45643), (19, 45658), (24, 45700), (28, 45781), (31, 45808), (33, 45976), (35, 45997), (36, 46129), (37, 46141), (39, 46201), (40, 46204), (41, 46213), (43, 46264), (44, 46267), (45, 46327), (46, 46345), (47, 46405),

Gene: Giles_63 Start: 45667, Stop: 46746, Start Num: 2

Candidate Starts for Giles_63:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Gravaillia_64 Start: 45771, Stop: 46802, Start Num: 7

Candidate Starts for Gravaillia_64:

(Start: 7 @45771 has 15 MA's), (9, 45801), (13, 45867), (14, 45873), (16, 45882), (17, 45909), (18, 45924), (19, 45939), (24, 45981), (28, 46062), (31, 46089), (33, 46257), (35, 46278), (36, 46410), (37, 46422), (39, 46482), (40, 46485), (41, 46494), (43, 46545), (44, 46548), (45, 46608), (46, 46626), (47, 46686),

Gene: HH92_68 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for HH92_68:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Hadrien_67 Start: 45667, Stop: 46746, Start Num: 2

Candidate Starts for Hadrien_67:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Hail_63 Start: 45667, Stop: 46746, Start Num: 2

Candidate Starts for Hail_63:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Kinbote_67 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for Kinbote_67:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: LilHazelnut_69 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for LilHazelnut_69:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: LilSpotty_80 Start: 46231, Stop: 47148, Start Num: 8

Candidate Starts for LilSpotty_80:

(Start: 8 @46231 has 5 MA's), (11, 46276), (12, 46279), (15, 46324), (18, 46369), (22, 46414), (23, 46423), (24, 46426), (27, 46489), (32, 46639), (34, 46687), (39, 46870), (42, 46906),

Gene: Luke_67 Start: 45622, Stop: 46701, Start Num: 2

Candidate Starts for Luke_67:

(1, 45613), (Start: 2 @45622 has 7 MA's), (3, 45646), (4, 45661), (5, 45664), (6, 45691), (Start: 7 @45718 has 15 MA's), (10, 45772), (11, 45775), (14, 45814), (16, 45823), (18, 45865), (20, 45886), (21, 45889), (25, 45946), (26, 45985), (29, 46012), (30, 46027), (36, 46309), (37, 46321), (38, 46345), (39, 46381), (40, 46384), (41, 46393), (43, 46444), (44, 46447), (45, 46507), (46, 46525), (47, 46585),

Gene: Luna22_63 Start: 45747, Stop: 46730, Start Num: 7

Candidate Starts for Luna22_63:

(1, 45642), (Start: 2 @45651 has 7 MA's), (3, 45675), (4, 45690), (5, 45693), (6, 45720), (Start: 7 @45747 has 15 MA's), (10, 45801), (11, 45804), (14, 45843), (16, 45852), (18, 45894), (20, 45915), (21, 45918), (25, 45975), (26, 46014), (29, 46041), (30, 46056), (36, 46338), (37, 46350), (38, 46374), (39, 46410), (40, 46413), (41, 46422), (43, 46473), (44, 46476), (45, 46536), (46, 46554), (47, 46614),

Gene: Misha28_84 Start: 51490, Stop: 52407, Start Num: 8

Candidate Starts for Misha28_84:

(Start: 8 @51490 has 5 MA's), (11, 51535), (12, 51538), (15, 51583), (18, 51628), (22, 51673), (23, 51682), (24, 51685), (27, 51748), (32, 51898), (34, 51946), (39, 52129), (42, 52165),

Gene: OBUpride_68 Start: 45759, Stop: 46790, Start Num: 7

Candidate Starts for OBUpride_68:

(Start: 7 @45759 has 15 MA's), (9, 45789), (13, 45855), (14, 45861), (16, 45870), (17, 45897), (18, 45912), (19, 45927), (24, 45969), (28, 46050), (31, 46077), (33, 46245), (35, 46266), (36, 46398), (37, 46410), (39, 46470), (40, 46473), (41, 46482), (43, 46533), (44, 46536), (45, 46596), (46, 46614), (47, 46674),

Gene: TootsiePop_84 Start: 51490, Stop: 52407, Start Num: 8

Candidate Starts for TootsiePop_84:

(Start: 8 @51490 has 5 MA's), (11, 51535), (12, 51538), (15, 51583), (18, 51628), (22, 51673), (23, 51682), (24, 51685), (27, 51748), (32, 51898), (34, 51946), (39, 52129), (42, 52165),

Gene: Ubuntu_69 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for Ubuntu_69:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390), (39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Webster2_69 Start: 45763, Stop: 46746, Start Num: 7

Candidate Starts for Webster2_69:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7 @45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931), (21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390),

(39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),

Gene: Wishmaker_63 Start: 45667, Stop: 46746, Start Num: 2

Candidate Starts for Wishmaker_63:

(1, 45658), (Start: 2 @45667 has 7 MA's), (3, 45691), (4, 45706), (5, 45709), (6, 45736), (Start: 7
@45763 has 15 MA's), (10, 45817), (11, 45820), (14, 45859), (16, 45868), (18, 45910), (20, 45931),
(21, 45934), (25, 45991), (26, 46030), (29, 46057), (30, 46072), (36, 46354), (37, 46366), (38, 46390),
(39, 46426), (40, 46429), (41, 46438), (43, 46489), (44, 46492), (45, 46552), (46, 46570), (47, 46630),